

Title (en)
Electric motor assisted turbocharger

Title (de)
Turbolader mit elektrischem Hilfsantrieb

Title (fr)
Turbocompresseur assisté par un moteur électrique

Publication
EP 1443189 B1 20080312 (EN)

Application
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Priority
GB 0302235 A 20030131

Abstract (en)
[origin: EP1443189A1] A turbocharger comprises a turbine wheel and a compressor wheel mounted to a turbocharger shaft. An electric induction motor is provided for assisting rotation of the compressor wheel in predetermined circumstances. The motor comprises a fixed stator having motor field coils which generate a rotating magnetic field when energised by an AC control signal which induces eddy current flow in a rotor to generate a rotor magnetic field which in turn interacts with the stator magnetic field producing torque in the rotor. <IMAGE>

IPC 8 full level
F02B 39/10 (2006.01); **F01D 15/10** (2006.01); **F02B 37/10** (2006.01); **H02K 7/14** (2006.01); **H02K 17/02** (2006.01); **H02K 17/16** (2006.01)

CPC (source: EP US)
F01D 15/10 (2013.01 - EP US); **F02B 37/025** (2013.01 - EP US); **F02B 37/10** (2013.01 - EP US); **F02B 39/10** (2013.01 - EP US); **F04D 13/06** (2013.01 - US); **H02K 7/14** (2013.01 - EP US); **H02K 17/02** (2013.01 - EP US); **F05D 2220/40** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Cited by
DE102009058593A1; AU2010326358B2; ITUB20154792A1; US7246490B2; WO2017072231A1; US10873252B2; EP2333272B1; WO2006042837A1; WO2005090763A1

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EP 04250503 A 20040130; DE 602004012340 T 20040130; GB 0302235 A 20030131; US 201313748382 A 20130123; US 76835804 A 20040130; US 89426507 A 20070820; US 92791310 A 20101129